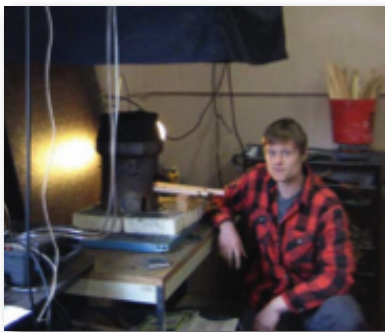


Design for Sustainable Communities Projects (2008)

- The **Panelized Shelter Team*** designed and prototyped new SIPs panel connections to enable rapid deployment of earthquake-safe emergency shelters in Pakistan.
- The **Berkeley Darfur Stoves Team*** performed emissions testing on cookstoves designed for Darfur and also began to setup a supply chain for mass production and assembly of stoves by the refugees as an income generating activity.
- The **Pond Management for India Team*** prototyped and tested devices to remove excessive plant growth to prevent eutrophication in drinking water source ponds in India.
- The **Wurster Hall Water Recycling Team*** performed an economic analysis and user preferences survey on retrofitting UC-Berkeley's Wurster Hall to recycle grey water in bathrooms. They built a demo sink to test water flow monitoring equipment that would make water usage data available to students in real time and made key contacts within the UCB administration.
- The **Lighting in Nicaragua Team*** performed an economic analysis and created a sample business model for a battery recycling service to provide low cost household lighting based on existing wind turbine electricity in rural Nicaragua.
- The **Berkeley ElectroArsenic Remediation (BEAR) Team*** designed, fabricated, and tested a prototype to remove arsenic from groundwater in community centers in Bangladesh using electrocoagulation. The team field-tested their device in Bangladesh and Cambodia.

* indicates student involvement continued beyond the course.

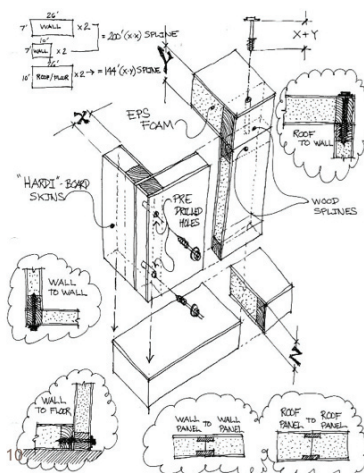
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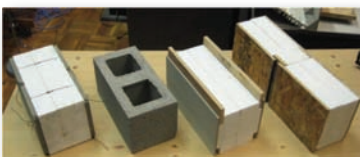
The Berkeley Darfur Stoves Team performs emissions testing on the Berkeley Darfur Stove, continuing the work of student teams from 2006-2007 (left).



The BEAR Team built and tested a prototype arsenic removal device for drinking water (above). The device was field-tested in Bangladesh (left) and Cambodia.



The Panelized Shelter team designed a number of SIPs connections for emergency shelter (left). The team also designed and tested various SIPs bricks and compared the performance to conventional building materials (lower left).



Students from the Wurster Hall Water Recycling Team discuss grey water recycling with other students using a demonstration sink and informative poster.